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Fall 2016

PUBH 3231 - Epidemiology and Biostatistics

Helen W. Bland

Georgia Southern University, Jiann-Ping Hsu College of Public Health, hwbland@georgiasouthern.edu

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Georgia Southern University
Jiann-Ping Hsu College of Public Health
PUBH 3231 – Epidemiology and Biostatistics (CRN 88210)
Fall 2016

| | |
|-------------------------------|--|
| <u>Instructor:</u> | Helen Bland, PhD |
| <u>Office:</u> | Hendricks Hall 1024 |
| <u>Phone:</u> | 912.478.5137 |
| <u>E-Mail Address:</u> | hwbland@georgiasouthern.edu |
| <u>Office Hours:</u> | Wednesday 9:00am – 1:00pm and by appointment |
| <u>Class Meets:</u> | Monday/Wednesday 4:00-5:15pm - COE 1130 |

Prerequisites: PUBH 2130 or Permission of Instructor

Catalog Description: This course introduces the student to the principles and practice of epidemiology and vital statistics. Students will be exposed to the historical development of epidemiology, concepts of causality, definitions of health and disease, and sources of community health data. Current principles and practices in the cause, prevention and control of diseases in various community settings will be emphasized. 3 credits (3-0-3).

Required Textbooks:

Merrill (2017). Introduction to Epidemiology (7th Edition). Jones and Bartlett Publishers: Sudbury, MA. ISBN 978-1-284-09435-0

Kittleson, M. (2013). Vital Statistics for the Public Health Educator (3rd Edition). You must order this and buy this online. Cheapest version is to download it:

For PC's: <http://www.hedir.org/product/vital-statistics-for-public-health-educators-for-pcs/>

For MACs: <http://www.hedir.org/product/vital-statistics-for-the-public-health-educator-for-macs/>

Preston, R. (1997). The Cobra Event. New York: Random House. ISBN 0-679-45714-3. I have 22 copies that I can loan out to students. Please send me an email to reserve a copy. First come, first serve.

Additional Required Resources:

Non-Programmable Calculator, preferably up to 10 digits

Course Learning Objectives:

1. The student will be able to identify the basic concepts and principles of epidemiology and vital statistics.
2. The student will be able to apply epidemiological concepts to diverse health problems and in various health settings.
3. The student will be able to understand the basic components of collecting, organizing, interpreting, and summarizing vital statistics.

4. The student will be able to operate within the information superhighway in order to obtain and utilize current epidemiological health data.
5. The student will be able to review disease and epidemiological cases in order to solve current, relevant epidemiological case study problems.

Instructional Methods:

Information will be presented in the classroom, through the required readings, and through written & oral assignments. Class meetings will be a combination of lecture, class discussion, and group activities. The instructor will attempt to cover all of the assigned readings; however, failure to cover assigned readings does not alleviate the student's responsibility of knowing the material. Furthermore, students are responsible for all miscellaneous information discussed during the assigned class periods. If you miss a class, you are responsible to find a fellow classmate to get all notes and materials missed.

Additional Required Resources:

Non-Programmable Calculator, preferably up to 10 digits

| <u>Grading:</u> | <i>Assignments</i> | <i>Points</i> |
|------------------------|---|---------------|
| | Exams (3) @ 80 points each | 240 |
| | Final Exam | 80 |
| | Quizzes 6@10 pts each | 60 |
| | Cobra Event Quizzes 7@ 10 pts each (lowest dropped) | 60 |
| | Case Study 3@ 15 points each, Submission 15 | 60 |
| | Total | 500 |

| <i>Point Scale</i> | <i>Percent</i> | <i>Grade</i> |
|--------------------|----------------|--------------|
| 450 - 500 pts | 90 - 100% | A |
| 400 - 449 pts | 80 - 89% | B |
| 350 - 399 pts | 70 - 79% | C |
| 300 - 349 pts | 60 - 69% | D |
| 299 - 0 pts | 00 - 59% | F |

Assignments:

1. Exams: There will be three exams, each worth 80 points. Exams may be any combination of true/false, multiple choice, matching, short answer, calculations & discussion. You are required to have a scan form 885 (big blue one) and nonprogrammable calculator for each test (240 pts total).
2. Final Exam: The final exam will be administered on Wednesday, Dec. 7th from 5:30 – 7:30pm. This exam is non-comprehensive test and may be any combination of true/false, multiple choice, matching, short answer, computations, & discussion. You are required to have a scan form 885 and nonprogrammable calculator for this test. No early/late finals will be given. If this time conflicts with your schedule, please consider dropping this course. (80 points total).
3. Quizzes. 6 quizzes will be given over the course of the semester. These quizzes will account for 10 points each (60 total points).

4. **Cobra Event Quizzes.** Throughout the semester, we will read a book entitled *The Cobra Event*. If you have reserved a book with me, please do not write, mark or highlight on your borrowed copy. Each student will sign out their reserved copy and are expected to return the copy on the day of the last quiz. Seven quizzes will be given on this book, with the lowest score dropped. Each quiz will consist of ten questions, with one point given for each correct response. (60 points total).
5. **Case Studies.** 3 case studies will be given over the course of the semester. The case studies are worth 15 points each. Case study days are announced in this syllabus. In addition, a case study submission will be requested from each student (15 points). A case study submission includes: a copy of the entire journal article from a peer-reviewed journal in epidemiology, a summary sheet that summarizes all major points of the article (written in your own words) and a question sheet of 10-12 questions about the journal article. On a separate sheet include the answers to the questions. The article should be interesting enough to lead to interesting discussions among student groups. Complete assignment details will be given before submission is due. You may want to have me “ok” the journal article before you start on the summary and question sheets. (60 total points). **Important: There are no make-ups on Case Study Days. If you are not present, you automatically receive 0 points for that Case Study Day.**
6. **Attendance.** At 4:03pm each day, the door to the classroom will be shut. If you arrive after that, you will not be allowed to enter the room. The disturbance to the course is too great. If you disturb the class by knocking on the door and trying to enter the classroom, your final grade will be lowered by a letter grade. Do not drop your personal items in the class and then leave the classroom, you will not be allowed to re-enter to retrieve your personal items until after the class is completed at 5:15pm. Once in the class, please remain in the class. I do not allow students to go in and out of the classroom. If you have a medical reason that you might need the restroom, please let me know and sit in the row nearest the door. Attendance will not be taken but is highly encouraged. **You are responsible** for missed content, announcements, due dates, homework assignments, date changes, etc when you miss a class. Please contact a fellow student who was in attendance that day.
7. **Bonus Points.** Bonus points will be available throughout the semester. Be on the watch for them!

Course Policies:

1. There will be no make-up exams given. Exams are the property of the professor, any exams removed from the classroom by students will result in the score of a “0” be assigned for that exam, and an “F” for the entire course. Exams require a Scantron Form 885. All exams are multiple choice, true/false, fill-in-the-blank, matching, essays, and computations.
2. No make up tests are given except for **an university excused absence with full documentation**. If you miss a test, you have one week to make the exam up. All make-up exams will be a combination of essay questions and computations. If it is not made up **within one week**, you will receive 0 points for the exam. **You have 24 hours** after a test is taken by the class to contact me via email to schedule your make-up exam or a 0 will be assigned to the test.
3. The final exam is mandatory (non-cumulative) and will be given during finals week. Early final exams will not be given. If this scheduled time is a problem, please consider dropping this course.

4. **All assignments** must be typed.
5. All assignments must be given to the professor directly or submitted online, unless otherwise directed. Assignments should not be given to the Office secretary, slipped under my office door, left in my mailbox, etc.
6. Late work assignments are not accepted, please submit all assignments via Folio or as you walk into the class. Assignments are due the first two minutes of class, after that they are considered late and will not be accepted. For assignments due on Folio, they are due according to the times posted on Folio. I will ONLY accept assignments submitted in **.doc or .docx** formats. Any other type of submissions will not be opened and receive automatic “0” points. I do not accept assignments submitted via email. I will not open assignments submitted via email and they will receive an automatic “0” points.
7. Please consult the **STUDENT CONDUCT CODE** 2016-17 for course policy concerning issues related to academic dishonesty. Anyone caught violating any of these regulations will be immediately reported to GSU's Judicial Board, and be assigned a “F” for the course.
8. Last day to withdraw from class without academic penalty is October 10, 2016. Students who stop attending class without officially withdrawing from the class will receive a final grade of "F".
9. Samples of your work may or may not be reproduced for research purposes and/or inclusion in the professor's teaching portfolio. You have a right to review anything selected for use, and subsequently ask for its removal.
10. By enrolling in this course, it is understood that students have read the syllabus, understand the rules and policies as stated, and will abide by them.
11. The College of Education Building follows a no eating/no drinking” policy in all its classrooms. Please follow this policy. If you need to eat in class, please bring enough to share! I understand the eating policy – some food smells to you that are good – are not pleasant to others. The noise is disruptive – paper/packaging and chewing. For those who missed breakfast/lunch – the eating is distracting. If you need to eat – please do it outside the classroom before or after class. I don't care if you bring a beverage to class.
12. At 4:03 each day, the door to the classroom will be shut. If you arrive after that, you will not be allowed to enter the room. The disturbance to the course is too great. If you disturb the class by knocking on the door and trying to enter the classroom, your final grade will be lowered by a letter grade. Do not drop your personal items in the class and then leave the classroom, you will not be allowed to re-enter until after the class is completed. Once in the class, please remain in the class. I do not allow students to go in and out of the classroom. If you have a medical reason that you might need the restroom, please let me know and sit in the row nearest the door.
13. This syllabus, my lectures, and all materials distributed and presented by me during this course are protected by copyright law. You are authorized to take notes in this class but that authorization extends only to making one set of notes for your personal use and no other use. You are not authorized to sell, license, commercially publish, distribute, transmit, display, or record notes from this class unless you have my written consent to do so.

14. If you are receiving services from the Student Disability Resource Center (SDRC) please come and see me, as soon as possible, to schedule an appointment to present me with an accommodation letter.
15. This course is on Folio. You are responsible for downloading notes BEFORE you come into class. Please regularly check Folio for any messages that I might have for you.
16. Students are expected to have a calculator during all class periods. The instructor will not provide calculators during class or exam periods. **Sharing calculators is not permitted during an exam.**
17. Student seating will be randomized during testing periods.
18. During testing periods, students are only allowed to bring a pencil, scantron, and non-programmable calculator to the seating area. Book bags and cell phones (turned off) must be left in the front of the classroom.
19. If you need to contact me, please use the hwbland@georgiasouthern.edu email address rather than the email message services on Folio. Please give me 48 hours to respond to emails. To write a **professional** email, please include the following: a salutation, identify who you are, what the contact is in reference too (i.e. PUBH 3231), and what you would like me to do. At the bottom of the email, please type out your name. Please be careful of nick names that you have associated with the person because they might show up that way!
20. Cell phone policy: Cell phones are expected to be OFF (or on silent) and OFF your person (in your purse or bookbag) at all times during all classes. If your cell phone goes off during class, you are using the phone (i.e. texting) or cell phone is on your desk/ person at any time during any lecture you will be asked to leave the class and will lose 8 points from your total grade every time this happens. In case of an emergency, please notify me prior to class.
21. Open Door/ Closed Door Office Policy: My door is always opened, unless it is closed. Most of the time, when I am in my office, my door is open. Please feel free to come in and visit any time when the door is open. When my office door is closed, it means that I am not there or I am working on something and can't be disturbed. Please respect this and don't knock unless it is a dire emergency.

My Commitment to You:

As a student in my class, you are important to me. I am committed to your continued learning and college experience. You are never an interruption of my work. You are the purpose of it. Students are the most important people at Georgia Southern University. I am honored that you entrust your education to me. Please feel free to visit my office, call, fax or e-mail me at anytime.

Professional Dispositions:

BSPH are expected to graduate the program with competent professional skills. Professional skills and dispositions are also expected while completing the internship experience. As a student in this course, you are expected to exhibit professionalism at all times. The following is a list of skills BSPH majors are expected to demonstrate:

- Written communication skills: Student uses appropriate professional title, grammar, structure, punctuation, spelling, tone, etc.
- Email and other media communication: Student uses appropriate professional title, grammar, structure, punctuation, tone, etc. To write a professional email, please include the following:
 - a salutation,
 - identify who you are,
 - what the contact is in reference to (i.e. PUBH 3231), and
 - what you would like me to do.

At the bottom of the email, please type out your name.

- Oral and non-verbal communication skills:
 - In interpersonal communication, student uses or maintains appropriate tone, language, attitude, interpersonal space, etc.
 - In public speaking, student uses or displays appropriate volume, speed, enunciation, eye contact, structure, etc.
- Organization: Student keeps track of assignments and materials, is prepared for presentations, etc.
- Initiative: Student can begin tasks and work independently, initiate tasks/projects, etc.
- Reliability: Student is punctual, completes assignments, meets deadlines, and is prepared for class etc.
- Collegiality: Student exhibits appropriate exhibits appropriate, positive, helpful interactions with others
- Collaboration: Student collaborates with others on tasks or projects accepts others' suggestions and criticisms, participates in and provides constructive inputs to discussion and debate, etc.
- Judgment: Student considers options and their implications when making decisions, does not act impulsively, etc.
- Respectful: Student respects confidentiality, treats others with respect, etc.
- Self-Presentation: Student is well groomed, dressed appropriately, well rested, etc.
- Interpersonal interactions: Students will practice civility when interacting with faculty and fellow students; in cases of disagreement or conflict, students will make every effort to resolve such matters in a respectful manner with a goal towards mutual resolution.

If a student fails to comply with the list of professional skills, the faculty will provide the student a warning for the first offense. If failure to improve behavior or to make progress in the relevant skills, the faculty member will immediately report the student to the University Student Conduct Board for violating the Student Code of Conduct.

90% of success is showing up
(Woody Allen, 2007)

Course Etiquette

E-mail and Folio

E-mail is an official means of communication from the University. It is your responsibility to check your Georgia Southern e-mail addresses regularly and to open and read e-mails your professors and the University send.

If you need to contact me, please use the hwbland@georgiasouthern.edu email address or you may use the email message services on Folio. University Policy on faculty and staff email response time is 48 hours – which does not include weekends. I will usually respond to you sooner than that! I usually do not read emails after 5:00pm. If you have a questions or an issue and I am not available – go to **Halltalk Discussion** in this course in Folio and post the question to another student, they can help you! The Graduate Assistant, Sandi Mills, is always willing to help as well.

To write a **professional** email, follow the instructions under Professional Disposition section. Please be careful of nick names that you have associated with the person because they might show up that way!

Some assignments are posted to Folio. I expect you to seek help for any issues you may have with Folio through the Center for Academic Technology Support (912-478-2287). Except in cases where I can verify systematic problems with Folio, I will not accept technical problems as an excuse for late work. It is my recommendation is to use Firefox or Chrome for work in Folio, although most other updated browsers will work. Students struggle with my absolutely “no late” assignment policy and assignments not being accepted via email or attachments on emails. All assignments are open the first day of class and you always may turn them in early. I would suggest that you set a goal of not going to bed the night before an assignment is due until you have submitted something. You can always wake up the next morning and clean it up and resubmit by 10:59am. Something is better than nothing. Your goal should be no “goose eggs” this semester!

Weather and Internet Outages – Weather and Internet outages are not accepted as an excuse for late papers or unsubmitted papers. The dropbox and all assignments are posted by the second week of class. You have ALL SEMESTER to turn them in. If you wait until the last moment and weather strikes or you have an internet outage – this is not excused and you will receive “0” points on the assignment.

Creating a Positive Environment for Learning:

Civility Statement for PUBH 3231:

Your individual success is my priority. I feel my job is to shape you both intellectually and professionally. Because this class needs to be participatory and students need to fulfill their potential for learning, people who disrupt this classroom environment by their words or actions disrupt this process. Talking out of turn, rude, sarcastic, obscene, or disrespectful speech and disruptive behavior have a negative impact on everyone's learning. When a person disrupts the class in these ways, the course instructor will ask the disruptive person to leave the class and meet with the student one-on-one prior to the next classroom meeting. *(Adapted from Department of Communication Arts, Language and Literature, WSC, Gunnison, CO)*

Georgia Southern Student Handbook (p.5.) defines “(6) “Classroom Disruption” as “any classroom behavior that interferes with the instructor’s ability to conduct class or the ability of other students to learn”. Respect requires that when one person is talking, others remains quiet and listen. Cross-talking is disruptive. In this class, there will be times when I will need to talk while everyone listens or remains quiet, you will get

opportunities to share and we will remain quiet and listening, and we will group share. Let's see how we can help each other with this.



Coping with Disruptive Students

Do Not Fight a Battle

- Accept that dealing with disruptive students is no fun
- Assume student doesn't know how much behavior impacts you/class
- Have a vision of success for the student

Then . . .

- Make an appointment with student
- Explain how his/her actions affects you/class
- Listen actively to his/her point-of-view
- Jointly look for ways to prevent problem from happening again
- Offer help—prearranged signal or referral
- **File a report** with the [Dean of Student](#)

Kerry Greenstein

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Academic Integrity

It is important for your future to understand that instructors at Georgia Southern treat cases of academic dishonesty seriously; these include plagiarism, self-plagiarism, and cheating on tests, quizzes and assignments. Violations of the Honor Code will be reported to the Dean of Students Office. Please know that these violations can be made by any person and can be made anonymously. Please understand at that we will treat cases of academic dishonesty seriously. If you ever have questions about what is permissible, ask me in advance.

Be aware of the Georgia Southern Honor Code and Honor Pledge:

"I will be academically honest in all of my course work and will not tolerate the academic dishonesty of others."

The Georgia Southern University Honor Code was proposed and jointly adopted by the Student Government Association and the Faculty Senate in 1998 to enhance the University's academic integrity standards.

"On my honor, I will be academically honest in all of my course work and will not tolerate the academic dishonesty of others. I also pledge to engage in ethical behavior on-campus and off-campus, to live an honorable lifestyle, and to create a campus environment that is characterized by individual responsibility, civility, and integrity."

(Georgia Southern University Campus Honor Pledge, an expansion of the Honor Code, approved by the Student Government Association in Spring 2014).

What is ACADEMIC DISHONESTY ? (As defined by the Georgia Southern Student Handbook):

- | | |
|-----------|--|
| Cheating- | collaborating with others on assignments without the faculty's consent |
| Cheating- | cooperating with and/or helping another student to cheat |
| Cheating- | demonstrating any other forms of dishonest behavior |
| Cheating- | fabricating information, research, and/or results |
| Cheating- | obtaining and/or using unauthorized materials |

| | |
|-------------|--|
| Cheating- | submitting material that is not yours as part of your course performance |
| Cheating- | using information or devices that are not allowed by the faculty |
| Cheating- | violating procedures prescribed to protect the integrity of an assignment, test, or other Classroom Copyright Infringement |
| Plagiarism- | directly quoting the words of others without using quotation marks or indented format |
| Plagiarism- | paraphrasing materials or ideas without identifying the source |
| Plagiarism- | purchase and/or use of unauthorized material |
| Plagiarism- | using sources of information (published or unpublished) without identifying them |

New to the Student Conduct Code:

Student Code of Conduct specifically prohibits "**self-plagiarism**" defined as "resubmitting work previously submitted without explicit approval from the instructor."

Originality Checker

All assignments that I post to Folio are graded with "originality checker". This checker is a software device in Folio that tells me what percentile of your work is copied from others – it could be a paper you have turned in for a different class, verbatim that you copied off of internet sources without proper citation or words that you have copied (or "collaborated" with) from another student within the university system. Please make sure that everything you submit is your original thoughts, ideas and expressions. ANY paper that has 55% or more listed by the originality checker – gets an automatic "0" points and I will not grade it. Repeated instances will be reported to Georgia Southern University's Judicial Board.

Academic Misconduct

As members of the campus community, students are encouraged to actively support academic honesty and integrity in both the classroom and on-line.

Academic misconduct will be dealt with according to Georgia Southern University policy. Students are encouraged to read and be familiar with such policies. These policies can be found in the *GSU Student Code of Conduct Policies and Procedures, 2015-2016*.

Policies and Procedures:

- *Georgia Southern University is an Equal Opportunity and Affirmative Action institution committed to providing reasonable accommodations for any person with a disability who meets the definition of disabled as described in the Americans with Disabilities Act. Students requiring academic accommodation should contact the Director of the Student Disability Resource Center for assistance at (912) 478-1566 or TDD: 478-0666*

Special Needs: If you have a special need (a physical or learning disability) that requires special assistance, please let me know as soon as possible, and in no case later than the second week of classes. I'll work with the SDRC (Student Disability Resource Center) to meet your needs.

PUBH 4134: Research Methods and Evaluation
Tentative Course Schedule*
Spring Semester 2016

| Dates | Topic/Assignment | Readings |
|---------------------------|---|-------------------------|
| Week One 8/15, 8/17 | 8/15 Syllabus Overview, Introductions, Expectations | |
| | 8/17 Foundations of Epidemiology | Chapter 1 Merrill |
| Week Two 8/22, 8/24 | 8/22 Historic Developments in Epidemiology Quiz #1 – Chapter 2 Merrill | Chapter 2 Merrill |
| | 8/24 Cobra Event Quiz # 1: pp. xi-56, Preface - Morgue | |
| Week Three 8/29, 8/31 | 8/29 Understanding Basic Statistics | Chapters 1-3, Kittleson |
| | 8/31 Ratio, Proportion, Percentage & Rate Cobra Event Quiz # 2: 59-116, Kate thru Invisible History II | Chapters 4,5 Kittleson |
| Week Four 9/5, 9/7 | 9/5 Labor Day – No Class | |
| | 9/7 No Class: Math Computations on Folio and Quiz #3 on Folio due at 5:15pm Cobra Event Quiz # 3: pp. 117-176, A Cast of the Net thru SIOC | |
| Week Five 9/12, 9/14 | 9/12 Decision Making in Health, Summary | Chapters 8,9 Kittleson |
| | 9/14 Exam #1: Chapter 1, 2 Merrill; Chapters 1-5, 8-9 Kittleson | |
| Week Six 9/19, 9/21 | 9/19 Practical Concepts in Epidemiology | Chapter 3, Merrill |
| | 9/21 Guidelines for Case Study Submission Discussed in Class Cobra Event Quiz # 4: pp.179-222, Quantico thru Signatures | |
| Week Seven 9/26 -9/28 | 9/26 Design Strategies and Statistical Methods in Descriptive Epidemiology Quiz #2 – Chapter 4 Merrill | Chapter 4, Merrill |
| | 9/28 Cobra Event Quiz # 5: pp. 223-284, Chimera thru Invisible History III | |
| Week Eight 10/3 & 10/5 | 10/3 Descriptive Epidemiology According to Person, Place and Time Quiz #3 – Chapter 5 Merrill | Chapter 5, Merrill |
| | 10/5 Case Study Submissions Due on FOLIO at 10:00pm Cobra Event Quiz # 6: pp. 287-338, Boy thru Bioprep | |

Updated: 8/14/2016

| Dates | Topic/Assignment | Readings |
|--------------------------------------|--|---------------------|
| Week Nine 10/10 & 10/12 | 10/10 Exam #2 Chapters 3 - 5 | |
| | 10/12 General Health and Population Indicators Cobra Event Quiz # 7: pp. 339-394, Surveillance thru the Host | Chapter 6, Merrill |
| Week Ten <u>10/17 & 10/19</u> | 10/17 Design Strategies and Statistical Methods in Analytical Epidemiology <u>Quiz #4 – Chapter 7 Merrill</u> | Chapter 7, Merrill |
| | 10/19 Case Study Day #1 | |
| Week Eleven <u>10/24, 10/26</u> | 10/24 Experimental Studies in Epidemiology Guest Lecturer | Chapter 8, Merrill |
| | 10/26 Case Study Day #2 | |
| Week Twelve 10/30, 11/1 | 10/30 Causality | Chapter 9, Merrill |
| | 11/1 Exam #3 – Chapters 6 - 9 | |
| Week Thirteen 11/7 & 11/9 | 11/7 Field Epidemiology <u>Quiz #5 – Chapter 10 Merrill</u> | Chapter 10, Merrill |
| | 11/9 Case Study Day #3 | |
| Week Fourteen 11/14 & 11/16 | 11/14 Chronic Disease Epidemiology <u>Quiz #6 – Chapter 11 Merrill</u> | Chapter 11, Merrill |
| | 11/16 Course Review/ Practice Computations | |
| Week Fifteen 11/28 & 11/30 | 11/28 Clinical Epidemiology | Chapter 12, Merrill |
| | 11/30 Review For Final | |
| Wednesday Dec. 7th | 5:30-7:30pm Final Exam: Chapters 10-12 | |

*This syllabus, including the calendar, is subject to modification if time constraints, student needs, or instructor needs warrant changes. It is your responsibility to remain apprised of any changes to the syllabus and to successfully complete the requirements of this course.

Name: _____

PUBH 3231: Epidemiology and Vital Statistics
Grading Sheet
Fall Semester 2016

| Assignment | Possible Points | Points Earned |
|---|-----------------|---------------|
| Exams #1 | 80 | _____ |
| Exam #2 | 80 | _____ |
| Exam #3 | 80 | _____ |
| Final Exam | 80 | _____ |
| Quizzes (60 points) | | |
| Quiz #1 | 10 | _____ |
| Quiz #2 | 10 | _____ |
| Quiz # 3 | 10 | _____ |
| Quiz # 4 | 10 | _____ |
| Quiz # 5 | 10 | _____ |
| Quiz # 6 | 10 | _____ |
| Cobra Event Quizzes (60 points) – Drop Lowest | | |
| CE Quiz #1 | 10 | _____ |
| CE Quiz #2 | 10 | _____ |
| CE Quiz # 3 | 10 | _____ |
| CE Quiz # 4 | 10 | _____ |
| CE Quiz # 5 | 10 | _____ |
| CE Quiz # 6 | 10 | _____ |
| CE Quiz # 7 | 10 | _____ |
| Case Studies (60 points) | | |
| Case Study Submission | 15 | _____ |
| Case Study #1 | 15 | _____ |
| Case Study #2 | 15 | _____ |
| Case Study #3 | 15 | _____ |
| TOTAL POINTS: | 500 | _____ |

| <i>Point Scale</i> | <i>Percent</i> | <i>Grade</i> |
|--------------------|----------------|--------------|
| 450 - 500 pts | 90 - 100% | A |
| 400 - 449 pts | 80 - 89% | B |
| 350 - 399 pts | 70 - 79% | C |
| 300 - 349 pts | 60 - 69% | D |
| 299 - 0 pts | 00 - 59% | F |

Bonus Points:

| Day | Event | Points |
|-------|-------|--------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |